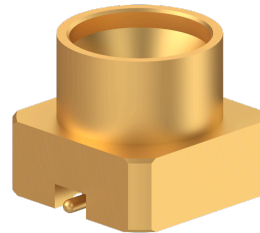


# COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight PCB plug (male), smooth bore

81\_SMPM-S50-0-S5/111\_N

## Properties

- Best performance-to-price ratio
- Excellent RF performance up to 65 GHz
- Small size, compact form factor
- Snap-on coupling mechanism with full detent and smooth bore
- Board-to-board solutions with bullets for axial and radial float



## Product configuration

Interface type	Gender	Standard
SMPM	plug	MIL-STD-348B

## Interface and material data

Piece parts	Material	Plating
Centre contact	Copper Beryllium Alloy	SUCOPRO Plating
Outer conductor	Brass	SUCOPRO Plating
Insulator	PEEK (Polyether-etherketone)	

## Electrical data

Impedance	50 $\Omega$
Interface frequency	65 GHz

## Electrical Data (frequency related)

Frequency range	Return loss	VSWR
0 GHz ... 18 GHz	26 dB	1.11
18 GHz ... 26.5 GHz	20 dB	1.22
26.5 GHz ... 50 GHz	18 dB	1.29
50 GHz ... 65 GHz	9 dB	2.10

## Mechanical data

Weight	0.25 g
Mating cycles	500
Board mounting type	surface mount
Height above PCB HA	3.4 mm

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Engagement / Disengagement force		
	Engagement	Disengagement
Interface class	Smooth bore	Smooth bore
Interface force typical	11 N	6.7 N

Environmental data	
Operation temperature	-65 °C ... 165 °C

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85246813	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead
85235736	RoHS 2011/65/EU and (EU) 2015/863	Compliant with exemption	6c
	REACH 1907/2006 Article 33 SVHC	Contains one or more SVHC >0,1%	CAS: 7439-92-1 Lead

Ordering Information Table		
Item number	Item description	Packaging type
85246813	81_SMPM-S50-0-S5/111_NE	Single
85235736	81_SMPM-S50-0-S5/111_NM	Tape and Reel

Additional Information	
Remarks	The values provided are typical and may vary depending on factors such as the mating connector, PCB (layout), and assembly condition.

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DOCUMENT PIM-P61177 / Date of publication: 10.12.2025 / uncontrolled copy